

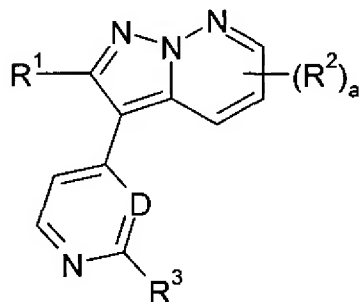
Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

What is claimed is:

1. (Currently Amended) A compound of Formula (I):



(I)

or a salt thereof, wherein

D is N:

R¹ is phenyl, where said phenyl may be optionally substituted one or more times with C₁-C₆ alkyl, C₁-C₆ alkoxy, halogen, or C₁-C₆ haloalkyl.

a is 1 or 2;

y is 0, 1, or 2;

R² is hydrogen, C₁-C₆ alkyl, C₁-C₆ alkenyl, C₁-C₆ alkynyl, C₁-C₆ haloalkyl, C₃-C₇ cycloalkyl, halogen, heterocyclyl tetrahydrofuranyl, pyranlyl, 1,4-dioxanyl, 1,3-dioxanyl, piperidinyl, pyrrolidinyl, morpholinyl, tetrahydrothiopyranlyl, tetrahydrothiophenyl, aryl, heteroaryl furanyl, thiophenyl, pyrrolyl, imidazolyl, pyrazolyl, triazolyl, tetrazolyl, thiazolyl, oxazolyl, isoxazolyl, oxadiazolyl, thiadiazolyl, isothiazolyl, pyridinyl, pyridazinyl, pyrazinyl, pyrimidinyl, quinolinyl, isoquinolinyl, benzofuranyl, benzothiophenyl, indolyl, indazolyl, cyano, azido, nitro, -OR⁸, -OR⁶R⁸, -R⁶R⁷, -R⁶R⁷, S(O)_yR⁷, -C(O)R⁷, -C(O)OR⁷, -C(O)NR⁴R⁵, -NR⁷(C=NR⁴)NR⁴R⁵, -OC(O)NR⁴R⁵, -OC(O)OR⁷, -C(=NR⁴)NR⁴R⁵ -NR⁴R⁵,

$-\text{OC}(\text{O})\text{R}^7$, or $-\text{NR}^7\text{C}(\text{O})\text{R}^7$;

R^3 is $-(\text{Q})_p-(\text{Q}^1)$

where

Q is O, $\text{N}(\text{R}^8)$ or $\text{S}(\text{O})_y$,

p is 0 or 1,

y is 0, 1, or 2, and

Q^1 is $\text{C}_1\text{-C}_6$ alkyl, $\text{C}_3\text{-C}_7$ cycloalkyl, $\text{C}_1\text{-C}_6$ haloalkyl, aryl, aryl substituted with $-\text{C}(\text{O})\text{N}(\text{H})\text{R}^6\text{NR}^4\text{R}^5$ or $-\text{OC}(\text{H})(\text{OH})\text{R}^6\text{NR}^4\text{R}^5$, ~~heteroaryl~~furanyl, thiophenyl, pyrrolyl, imidazolyl, pyrazolyl, triazolyl, tetrazolyl, thiazolyl, oxazolyl, isoxazolyl, oxadiazolyl, thiadiazolyl, isothiazolyl, pyridinyl, pyridazinyl, pyrazinyl, pyrimidinyl, quinolinyl, isoquinolinyl, benzofuranyl, benzothiophenyl, indolyl, indazolyl, aralkyl, or $-\text{R}^6\text{NR}^4\text{R}^5$;

R^4 and R^5 are independently hydrogen, $\text{C}_1\text{-C}_3$ alkyl, $\text{C}_3\text{-C}_7$ cycloalkyl, or R^4 and R^5 together with the nitrogen atom to which they are bound form a ~~heterocyclyl~~piperidinyl, pyrrolidinyl, morpholinyl, or tetrahydrothiophenyl;

R^6 is alkylene, arylene, ~~heteroarylene~~furan-2,5-diyl, thiophene-2,4-diyl, 1,3,4-oxadiazole-2,5-diyl, 1,3,4-thiadiazole-2,5-diyl, 1,3-thiazole-2,4-diyl, 1,3-thiazole-2,5-diyl, pyridine-2,4-diyl, pyridine-2,3-diyl, pyridine-2,5-diyl, pyrimidine-2,4-diyl, quinoline-2,3-diyl, cycloalkylene, alkenylene, cycloalkenylene, or alkynylene;

R^7 is hydrogen, $\text{C}_1\text{-C}_6$ alkyl, $\text{C}_1\text{-C}_6$ alkenyl, $\text{C}_1\text{-C}_6$ alkynyl, $-\text{NR}^4\text{R}^5$, aryl, aralkyl, heteroaryl, cycloalkyl, heterocyclyl, $-\text{S}(\text{O})_y\text{R}^8$, $-\text{C}(\text{O})\text{R}^8$, $-\text{C}(\text{O})\text{OR}^8$, $-\text{C}(\text{O})\text{NR}^4\text{R}^5$, $-\text{S}(\text{O})_2\text{NR}^4\text{R}^5$, $-\text{NR}^7(\text{C}=\text{NR}^4)\text{NR}^4\text{R}^5$, $-\text{OC}(\text{O})\text{NR}^4\text{R}^5$, $-\text{OC}(\text{O})\text{OR}^8$, $-\text{C}(=\text{NR}^4)\text{NR}^4\text{R}^5$, $-\text{NR}^4\text{R}^5$, or $-\text{NR}^7\text{C}(\text{O})\text{R}^7$

R^8 is hydrogen, $\text{C}_1\text{-C}_6$ alkyl, $\text{C}_1\text{-C}_6$ alkenyl, $\text{C}_1\text{-C}_6$ alkynyl, $-\text{NR}^4\text{R}^5$, aryl, aralkyl, heteroaryl, cycloalkyl, ~~heterocyclyl~~tetrahydrofuranyl, pyranyl, 1,4-dioxanyl, 1,3-dioxanyl, piperidinyl, pyrrolidinyl, morpholinyl, tetrahydrothiopyranyl, tetrahydrothiophenyl, or $-\text{S}(\text{O})_2\text{R}^9$;

R^9 is $\text{C}_1\text{-C}_6$ alkyl or $\text{C}_1\text{-C}_6$ haloalkyl;

R' is C₁-C₃ alkylene; and

R'' is -OR⁷, -OC(O)NR⁴R⁵, -OC(O)OR⁷, -OC(O)R⁷.

2-3. (Cancelled).

4. (Currently Amended) The compound of claim 1 wherein R¹ is phenyl is substituted in the para position with C₁-C₆ alkyl, C₁-C₆ alkoxy, halogen, or C₁-C₆ haloalkyl.

5. (Currently Amended) The compound of claim 1 wherein R³ is further defined wherein Q is N(R⁸), where R⁸ is H, p is 1, and Q¹ is ~~optionally-substituted-aryl~~ optionally substituted with -C(O)N(H)R⁶NR⁴R⁵ or -OC(H)(OH)R⁶NR⁴R⁵, furanyl, thiophenyl, pyrrolyl, imidazolyl, pyrazolyl, triazolyl, tetrazolyl, thiazolyl, oxazolyl, isoxazolyl, oxadiazolyl, thiadiazolyl, isothiazolyl, pyridinyl, pyridazinyl, pyrazinyl, pyrimidinyl, quinolinyl, isoquinolinyl, benzofuranyl, benzothiophenyl, indolyl, indazolyl, aralkyl, or -R⁶NR⁴R⁵.

6. (Currently Amended) The compound of claim 5 wherein Q¹ is ~~optionally-substituted phenyl~~ optionally substituted with -C(O)N(H)R⁶NR⁴R⁵ or -OC(H)(OH)R⁶NR⁴R⁵, furanyl, thiophenyl, pyrrolyl, imidazolyl, pyrazolyl, triazolyl, tetrazolyl, thiazolyl, oxazolyl, isoxazolyl, oxadiazolyl, thiadiazolyl, isothiazolyl, pyridinyl, pyridazinyl, pyrazinyl, pyrimidinyl, quinolinyl, isoquinolinyl, benzofuranyl, benzothiophenyl, indolyl, indazolyl, aralkyl, or -R⁶NR⁴R⁵.

7. (Currently Amended) The compound of claim 6 wherein Q¹ is phenyl substituted in the meta or para position with -C(O)N(H)R⁶NR⁴R⁵ or -OC(H)(OH)R⁶NR⁴R⁵, furanyl, thiophenyl, pyrrolyl, imidazolyl, pyrazolyl, triazolyl, tetrazolyl, thiazolyl, oxazolyl, isoxazolyl, oxadiazolyl, thiadiazolyl, isothiazolyl, pyridinyl, pyridazinyl, pyrazinyl, pyrimidinyl, quinolinyl, isoquinolinyl, benzofuranyl, benzothiophenyl, indolyl, indazolyl, aralkyl, or -R⁶NR⁴R⁵.

8-15. (Cancelled).

16. (Currently Amended) A pharmaceutical composition, comprising: a compound as claimed in claim 1, or a salt ~~or~~ thereof and one or more of pharmaceutically acceptable carriers, diluents and excipients.

17–25. (Cancelled).

26. (Previously Presented) A compound selected from the group consisting of:
4-[2-(4-methoxyphenyl)pyrazolo[1,5-b]pyridazin-3-yl]-N-phenylpyrimidin-2-amine;
4-[2-(4-methoxyphenyl)pyrazolo[1,5-b]pyridazin-3-yl]-N-[3-(trifluoromethyl)phenyl]pyrimidin-2-amine;
N-(3,4-difluorophenyl)-4-[2-(4-methoxyphenyl)pyrazolo[1,5-b]pyridazin-3-yl]pyrimidin-2-amine;
N-(2,3-dihydro-1,4-benzodioxin-6-yl)-4-[2-(4-methoxyphenyl)pyrazolo[1,5-b]pyridazin-3-yl]pyrimidin-2-amine;
N-[4-chloro-3-(trifluoromethyl)phenyl]-4-[2-(4-methoxyphenyl)pyrazolo[1,5-b]pyridazin-3-yl]pyrimidin-2-amine;
N-phenyl-4-{2-[4-(trifluoromethyl)phenyl]pyrazolo[1,5-b]pyridazin-3-yl}pyrimidin-2-amine;
N-[3-(trifluoromethyl)phenyl]-4-{2-[4-(trifluoromethyl)phenyl]pyrazolo[1,5-b]pyridazin-3-yl}pyrimidin-2-amine;
N-(3,4-difluorophenyl)-4-{2-[4-(trifluoromethyl)phenyl]pyrazolo[1,5-b]pyridazin-3-yl}pyrimidin-2-amine;
N-(2,3-dihydro-1,4-benzodioxin-6-yl)-4-{2-[4-(trifluoromethyl)phenyl]pyrazolo[1,5-b]pyridazin-3-yl}pyrimidin-2-amine;
N-[4-chloro-3-(trifluoromethyl)phenyl]-4-{2-[4-(trifluoromethyl)phenyl]pyrazolo[1,5-b]pyridazin-3-yl}pyrimidin-2-amine;
4-[2-(4-chlorophenyl)pyrazolo[1,5-b]pyridazin-3-yl]-N-phenylpyrimidin-2-amine;
4-[2-(4-chlorophenyl)pyrazolo[1,5-b]pyridazin-3-yl]-N-[3-(trifluoromethyl)phenyl]pyrimidin-2-amine;
4-[2-(4-chlorophenyl)pyrazolo[1,5-b]pyridazin-3-yl]-N-(3,4-difluorophenyl)pyrimidin-2-amine;
4-[2-(4-chlorophenyl)pyrazolo[1,5-b]pyridazin-3-yl]-N-(2,3-dihydro-1,4-benzodioxin-6-yl)pyrimidin-2-amine;
4-[2-(4-chlorophenyl)pyrazolo[1,5-b]pyridazin-3-yl]-N-[4-chloro-3-(trifluoromethyl)phenyl]pyrimidin-2-amine;

4-{6-methyl-2-[4-(trifluoromethyl)phenyl]pyrazolo[1,5-b]pyridazin-3-yl}-N-phenylpyrimidin-2-amine;
N-(2,3-dihydro-1,4-benzodioxin-6-yl)-4-[6-methyl-2-(4-methylphenyl)pyrazolo[1,5-b]pyridazin-3-yl]pyrimidin-2-amine;
N-phenyl-4-(2-phenylpyrazolo[1,5-b]pyridazin-3-yl)-2-pyrimidinamine;
4-(2-phenylpyrazolo[1,5-b]pyridazin-3-yl)-N-[3-(trifluoromethyl)phenyl]-2-pyrimidinamine;
N-[4-chloro-3-(trifluoromethyl)phenyl]-4-(2-phenylpyrazolo[1,5-b]pyridazin-3-yl)-2-pyrimidinamine;
N-(2,3-dihydro-1,4-benzodioxin-6-yl)-4-(2-phenylpyrazolo[1,5-b]pyridazin-3-yl)-2-pyrimidinamine;
N-(3,5-difluorophenyl)-4-(2-phenylpyrazolo[1,5-b]pyridazin-3-yl)-2-pyrimidinamine;
N-(3,4-difluorophenyl)-4-(2-phenylpyrazolo[1,5-b]pyridazin-3-yl)-2-pyrimidinamine;
4-[2-(4-fluorophenyl)pyrazolo[1,5-b]pyridazin-3-yl]-N-phenyl-2-pyrimidinamine;
N-(2,3-dihydro-1,4-benzodioxin-6-yl)-4-[2-(4-fluorophenyl)pyrazolo[1,5-b]pyridazin-3-yl]-2-pyrimidinamine;
4-[2-(4-fluorophenyl)pyrazolo[1,5-b]pyridazin-3-yl]-N-[3-(trifluoromethyl)phenyl]-2-pyrimidinamine;
N-[4-chloro-3-(trifluoromethyl)phenyl]-4-[2-(4-fluorophenyl)pyrazolo[1,5-b]pyridazin-3-yl]-2-pyrimidinamine;
N-(3,4-difluorophenyl)-4-[2-(4-fluorophenyl)pyrazolo[1,5-b]pyridazin-3-yl]-2-pyrimidinamine;
N-phenyl-4-[2-[3-(trifluoromethyl)phenyl]pyrazolo[1,5-b]pyridazin-3-yl]-2-pyrimidinamine;
N-(2,3-dihydro-1,4-benzodioxin-6-yl)-4-[2-[3-(trifluoromethyl)phenyl]pyrazolo[1,5-b]pyridazin-3-yl]-2-pyrimidinamine;
N-[3-(trifluoromethyl)phenyl]-4-[2-[3-(trifluoromethyl)phenyl]pyrazolo[1,5-b]pyridazin-3-yl]-2-pyrimidinamine;
N-[4-chloro-3-(trifluoromethyl)phenyl]-4-[2-[3-(trifluoromethyl)phenyl]pyrazolo[1,5-b]pyridazin-3-yl]-2-pyrimidinamine;
N-(3,4-difluorophenyl)-4-[2-[3-(trifluoromethyl)phenyl]pyrazolo[1,5-b]pyridazin-3-yl]-2-pyrimidinamine;
4-(6-methyl-2-phenylpyrazolo[1,5-b]pyridazin-3-yl)-N-phenyl-2-pyrimidinamine;
N-(2,3-dihydro-1,4-benzodioxin-6-yl)-4-(6-methyl-2-phenylpyrazolo[1,5-b]pyridazin-3-yl)-2-pyrimidinamine;

4-(6-methyl-2-phenylpyrazolo[1,5-b]pyridazin-3-yl)-N-[3-(trifluoromethyl)phenyl]-2-pyrimidinamine;
N-[4-chloro-3-(trifluoromethyl)phenyl]-4-(6-methyl-2-phenylpyrazolo[1,5-b]pyridazin-3-yl)-2-pyrimidinamine;
N-(3,4-difluorophenyl)-4-(6-methyl-2-phenylpyrazolo[1,5-b]pyridazin-3-yl)-2-pyrimidinamine;
4-{6-methyl-2-[3-(trifluoromethyl)phenyl]pyrazolo[1,5-b]pyridazin-3-yl}-N-phenyl-2-pyrimidinamine;
4-{6-methyl-2-[3-(trifluoromethyl)phenyl]pyrazolo[1,5-b]pyridazin-3-yl}-N-[3-(trifluoromethyl)phenyl]-2-pyrimidinamine;
N-[4-chloro-3-(trifluoromethyl)phenyl]-4-{6-methyl-2-[3-(trifluoromethyl)phenyl]pyrazolo[1,5-b]pyridazin-3-yl}-2-pyrimidinamine;
N-(3,4-difluorophenyl)-4-{6-methyl-2-[3-(trifluoromethyl)phenyl]pyrazolo[1,5-b]pyridazin-3-yl}-2-pyrimidinamine;
N-(2,3-dihydro-1,4-benzodioxin-6-yl)-4-{6-methyl-2-[3-(trifluoromethyl)phenyl]pyrazolo[1,5-b]pyridazin-3-yl}-2-pyrimidinamine;
4-[2-(4-fluorophenyl)-6-methylpyrazolo[1,5-b]pyridazin-3-yl]-N-phenyl-2-pyrimidinamine;
N-(2,3-dihydro-1,4-benzodioxin-6-yl)-4-[2-(4-fluorophenyl)-6-methylpyrazolo[1,5-b]pyridazin-3-yl]-2-pyrimidinamine;
4-[2-(4-fluorophenyl)-6-methylpyrazolo[1,5-b]pyridazin-3-yl]-N-[3-(trifluoromethyl)phenyl]-2-pyrimidinamine;
N-[4-chloro-3-(trifluoromethyl)phenyl]-4-[2-(4-fluorophenyl)-6-methylpyrazolo[1,5-b]pyridazin-3-yl]-2-pyrimidinamine;
N-(3,4-difluorophenyl)-4-[2-(4-fluorophenyl)-6-methylpyrazolo[1,5-b]pyridazin-3-yl]-2-pyrimidinamine;

and salts thereof.

27. (Previously Presented) A pharmaceutical composition, comprising:
a compound as claimed in claim 26, or a salt thereof and one or more of
pharmaceutically acceptable carriers, diluents and excipients.